

Lucia Capra

List of Publications by Year in descending order

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72
papers

2,217
citations

201674

27
h-index

243625

44
g-index

78
all docs

78
docs citations

78
times ranked

1439
citing authors

#	ARTICLE	IF	CITATIONS
1	Debris avalanches and debris flows transformed from collapses in the Trans-Mexican Volcanic Belt, Mexico – behavior, and implications for hazard assessment. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 113, 81-110.	2.1	141
2	The formation and impact of landslide dams – State of the art. <i>Earth-Science Reviews</i> , 2020, 203, 103116.	9.1	133
3	The cohesive Naranjo debris-flow deposit (10 km ³):. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 117, 213-235.	2.1	107
4	Pleistocene cohesive debris flows at Nevado de Toluca Volcano, central Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 102, 149-167.	2.1	83
5	Recent lahars at Volc�n de Colima (Mexico): Drainage variation and spectral classification. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 165, 127-141.	2.1	79
6	Abrupt climatic changes as triggering mechanisms of massive volcanic collapses. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 329-333.	2.1	71
7	Rainfall-triggered lahars at Volc�n de Colima, Mexico: Surface hydro-repellency as initiation process. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 189, 105-117.	2.1	69
8	The 1997 and 2001 lahars of Popocatepetl volcano (Central Mexico): textural and sedimentological constraints on their origin and hazards. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 131, 351-369.	2.1	67
9	Hazard map of El Chich�n volcano, Chiapas, M�xico: Constraints posed by eruptive history and computer simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 444-458.	2.1	65
10	Stratigraphic reconstruction of two debris avalanche deposits at Colima Volcano (Mexico): Insights into pre-failure conditions and climate influence. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 33-46.	2.1	65
11	Predicting the block-and-ash flow inundation areas at Volc�n de Colima (Colima, Mexico) based on the present day (February 2010) status. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 193, 49-66.	2.1	63
12	Structural architecture of the Colima Volcanic Complex. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
13	The 26 May 1982 breakout flows derived from failure of a volcanic dam at El Chich�n, Chiapas, Mexico. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 233.	3.3	54
14	Holocene plinian eruption of La Virgen volcano, Baja California, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 80, 239-266.	2.1	51
15	Sector collapse of the SW flank of Volc�n de Colima, M�xico. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 197, 52-66.	2.1	50
16	Preliminary report on the July 10–11, 2015 eruption at Volc�n de Colima: Pyroclastic density currents with exceptional runouts and volume. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 39-49.	2.1	47
17	Volcanic hazard zonation of the Nevado de Toluca volcano, M�xico. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 469-484.	2.1	41
18	Textural features as indicators of debris avalanche transport and emplacement, Taranaki volcano. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 3-18.	3.3	41

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19	Tephra fallout hazard assessment for a Plinian eruption scenario at Volc��n de Colima (Mexico). <i>Journal of Volcanology and Geothermal Research</i> , 2011, 203, 12-22.	2.1	36
20	Hydrological control of large hurricane-induced lahars: evidence from rainfall-runoff modeling, seismic and video monitoring. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 781-794.	3.6	36
21	Mass movements in tropical volcanic terrains: the case of Teziutl��n (M��xico). <i>Engineering Geology</i> , 2003, 69, 359-379.	6.3	35
22	Evolution and hazards of a long-quiescent compound shield-like volcano: Cofre de Perote, Eastern Trans-Mexican Volcanic Belt. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 197, 209-224.	2.1	35
23	Volcanic natural dams: identification, stability, and secondary effects. <i>Natural Hazards</i> , 2007, 43, 45-61.	3.4	34
24	The importance of digital elevation model resolution on granular flow simulations: a test case for Colima volcano using TITAN2D computational routine. <i>Natural Hazards</i> , 2011, 59, 665-680.	3.4	34
25	Textural analysis of particles from El Zagu��n debris avalanche deposit, Nevado de Toluca volcano, Mexico: Evidence of flow behavior during emplacement. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 200, 75-82.	2.1	31
26	Stratigraphy, sedimentology and inferred flow dynamics from the July 2015 block-and-ash flow deposits at Volc��n de Colima, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 349, 99-116.	2.1	31
27	Quaternary sector collapses of Nevado de Toluca volcano (Mexico) governed by regional tectonics and volcanic evolution. , 2008, 4, 854.		30
28	Flank collapse scenarios at Volc��n de Colima, Mexico: A relative instability analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 208, 51-65.	2.1	29
29	The anatomy of a lahar: Deciphering the 15th September 2012 lahar at Volc��n de Colima, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 272, 126-136.	2.1	29
30	Climatic fluctuations as a significant contributing factor for volcanic collapses. Evidence from Mexico during the Late Pleistocene. <i>Global and Planetary Change</i> , 2013, 100, 194-203.	3.5	28
31	Morphological analysis of Nevado de Toluca volcano (Mexico): new insights into the structure and evolution of an andesitic to dacitic stratovolcano. <i>Geomorphology</i> , 2004, 62, 47-61.	2.6	27
32	Seismic characterization of hyperconcentrated flows in a volcanic environment. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2219-2231.	2.5	27
33	Recent left-oblique slip faulting in the central eastern Trans-Mexican Volcanic Belt: Seismic hazard and geodynamic implications. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	26
34	Tectonic evolution of the central-eastern sector of Trans Mexican Volcanic Belt and its influence on the eruptive history of the Nevado de Toluca volcano (Mexico). <i>Journal of Volcanology and Geothermal Research</i> , 2006, 158, 21-36.	2.1	26
35	Re-assessing volcanic hazard zonation of Volc��n de Colima, M��xico. <i>Natural Hazards</i> , 2015, 76, 41-61.	3.4	24
36	Numerical simulation of tephra transport and deposition of the 1982 El Chich��n eruption and implications for hazard assessment. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 231-232, 39-49.	2.1	23

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37	The anatomy of a pyroclastic density current: the 10 July 2015 event at Volc��n de Colima (Mexico). <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	22
38	Late Pleistocene flank collapse of Zempoala volcano (Central Mexico) and the role of fault reactivation. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 944-958.	2.1	21
39	Paleoproterozoic andesitic volcanism in the southern Amazonian craton, the Sobreiro Formation: New insights from lithofacies analysis of the volcanoclastic sequences. <i>Precambrian Research</i> , 2017, 289, 18-30.	2.7	20
40	The use of FLO2D numerical code in lahar hazard evaluation at Popocatepetl volcano: a 2001 lahar scenario. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 3345-3355.	3.6	19
41	Seismic characterisation of lahars at Volc��n de Colima, Mexico. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	19
42	Ash clouds temperature estimation. Implication on dilute and concentrated PDCs coupling and topography confinement. <i>Scientific Reports</i> , 2019, 9, 5657.	3.3	19
43	Emplacement temperature estimation of the 2015 dome collapse of Volc��n de Colima as key proxy for flow dynamics of confined and unconfined pyroclastic density currents. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 321-338.	2.1	18
44	Large scale landslides triggered by Quaternary tectonics in the Acambay graben, Mexico. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 1445-1455.	2.5	17
45	Factors controlling erosion/deposition phenomena related to lahars at Volc��n de Colima, Mexico. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1881-1895.	3.6	17
46	Long-range hazard assessment of volcanic ash dispersal for a Plinian eruptive scenario at Popocatepetl volcano (Mexico): implications for civil aviation safety. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	16
47	LATE FORMATIVE FLOODING OF IZAPA AFTER AN ERUPTION OF TACAN��VOLCANO. <i>Ancient Mesoamerica</i> , 2018, 29, 361-371.	0.3	16
48	Spatio-temporal reconstruction of lahars on the southern slopes of Colima volcano, Mexico â A dendrogeomorphic approach. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 267, 30-38.	2.1	15
49	Understanding eruptive style variations at calc-alkaline volcanoes: the 1913 eruption of Fuego de Colima volcano (Mexico). <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	14
50	Hazard assessment at San Mart��n volcano based on geological record, numerical modeling, and spatial analysis. <i>Natural Hazards</i> , 2014, 70, 275-297.	3.4	13
51	Ceboruco hazard map: part II â modeling volcanic phenomena and construction of the general hazard map. <i>Natural Hazards</i> , 2019, 96, 893-933.	3.4	13
52	Chronology of the 2014â2016 Eruptive Phase of Volc��n de Colima and Volume Estimation of Associated Lava Flows and Pyroclastic Flows Based on Optical Multi-Sensors. <i>Remote Sensing</i> , 2019, 11, 1167.	4.0	10
53	Late Pleistocene-Holocene Debris Avalanche Deposits from Volc��n de Colima, Mexico. <i>Active Volcanoes of the World</i> , 2019, , 55-79.	1.4	10
54	Geostatistics and multivariate analysis as a tool to characterize volcanoclastic deposits: Application to Nevado de Toluca volcano, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 117-128.	2.1	9

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55	Ceboruco hazard map: part I - definition of hazard scenarios based on the eruptive history. <i>Journal of Applied Volcanology</i> , 2019, 8, .	2.0	9
56	Destruction of a lava dome observed with photogrammetry, acoustic and seismic sensors at Volc��n de Colima, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 395, 106834.	2.1	9
57	The 27 May 1937 catastrophic flow failure of gold tailings at Tlalpujahu��, Michoac��n, Mexico. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1069-1085.	3.6	7
58	Glacier melting during lava dome growth at Nevado de Toluca volcano (Mexico): Evidences of a major threat before main eruptive phases at ice-caped volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 294, 1-10.	2.1	7
59	Cyclic activity of the Fuego de Colima volcano (Mexico): insights from satellite thermal data and nonlinear models. <i>Solid Earth</i> , 2019, 10, 1429-1450.	2.8	7
60	Earthquake-induced debris flows at Popocat��petl Volcano, Mexico. <i>Earth Surface Dynamics</i> , 2021, 9, 393-412.	2.4	7
61	El Chich��n Volcano: Eruptive History. <i>Active Volcanoes of the World</i> , 2015, , 45-76.	1.4	7
62	Analysing stress field conditions of the Colima Volcanic Complex (Mexico) by integrating finite-element modelling (FEM) simulations and geological data. <i>Solid Earth</i> , 2020, 11, 2515-2533.	2.8	7
63	The Lower Toluca Pumice: A ca. 21,700 yr B.P. Plinian eruption of Nevado de Toluca volcano, Mexico. , 2006, , .		6
64	Connectivity and hydrological efficiency dynamics at active volcanoes, Mexico. <i>Science of the Total Environment</i> , 2020, 736, 139649.	8.0	6
65	Volcanic Natural Dams Associated with Sector Collapses: Textural and Sedimentological Constraints on Their Stability. <i>Lecture Notes in Earth Sciences</i> , 2011, , 279-294.	0.5	6
66	Comment on: Schmitt, A.K. et al. (2006): Eruption and magma crystallization ages of Las Tres Virgenes (Baja California) constrained by combined ²³⁰ Th/ ²³⁸ U and (^U �� Th)/He dating of zircon [J. <i>Volcanol. Geotherm. Res.</i> V. 158: 281��295]. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 163, 98-101.	2.1	5
67	Insights Into the Internal Dynamics of Natural Lahars From Analysis of 3-Component Broadband Seismic Signals at Volc��n de Colima, Mexico. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	5
68	Shallow-water models for volcanic granular flows: A review of strengths and weaknesses of TITAN2D and FLO2D numerical codes. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 410, 107146.	2.1	4
69	Lahares secundarios en el volc��n Popocat��petl: El lahar Nexpayantla del 4 de febrero, 2010. <i>Revista Mexicana De Ciencias Geologicas</i> , 2020, 37, 121-134.	0.4	3
70	First evidence of hydromagmatism at Colima volcano (Mexico). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 249, 197-200.	2.1	2
71	Origin, Behaviour and Hazard of Rain-Triggered Lahars at Volc��n de Colima. <i>Active Volcanoes of the World</i> , 2019, , 141-157.	1.4	0
72	Evidence of the Early Holocene eruptive activity of Volc��n de Colima and the 8.2 kyr global climatic event in lacustrine sediments from a debris avalanche-dammed lake. <i>Geological Society Special Publication</i> , 0, , SP520-2021-63.	1.3	0